



# MISSOURI BOTANICAL GARDEN

## PETER H. RAVEN LIBRARY



## GEORGE ENGELMANN BOTANICAL NOTEBOOKS

*Pagination Note:*  
*Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.*

Brewer 1879. Oct 5 1862

"*Pinus contorta*"

(probably means *P. monilifera* <sup>No. 32</sup>  
which Bolander also collected here)

Granite ridge, exposed to sea winds  
on Tomales Point -

very dense masses, like a wall  
bright dark green - trees much  
branched, rather squat wide  
spreading, forming beautiful trees  
cones remaining on the tree for  
a long time without opening.

note on a cone in Shars Coll. by me  
cone 1-sided, round, 3 sides long,  
 $1\frac{3}{4}$  thick, with stout scales,  
scales in  $\frac{2}{3}$  order  $8 \times 13$  rows most  
conspicuous.



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

Victoria Jeff. Co. Mo. May

Dr. Engleman

14

Dear Sir

As directed I  
gave Mr. Spencer Chini 24 grains  
in 24 hours. Then 12 grains within  
8 hours in daytime, for 3 days  
He seemed somewhat better while  
taking it though not at all free  
from headache. Now his head  
troubles him about the same as  
before. It is four days since he  
D. 1  
on 1, 1, 1

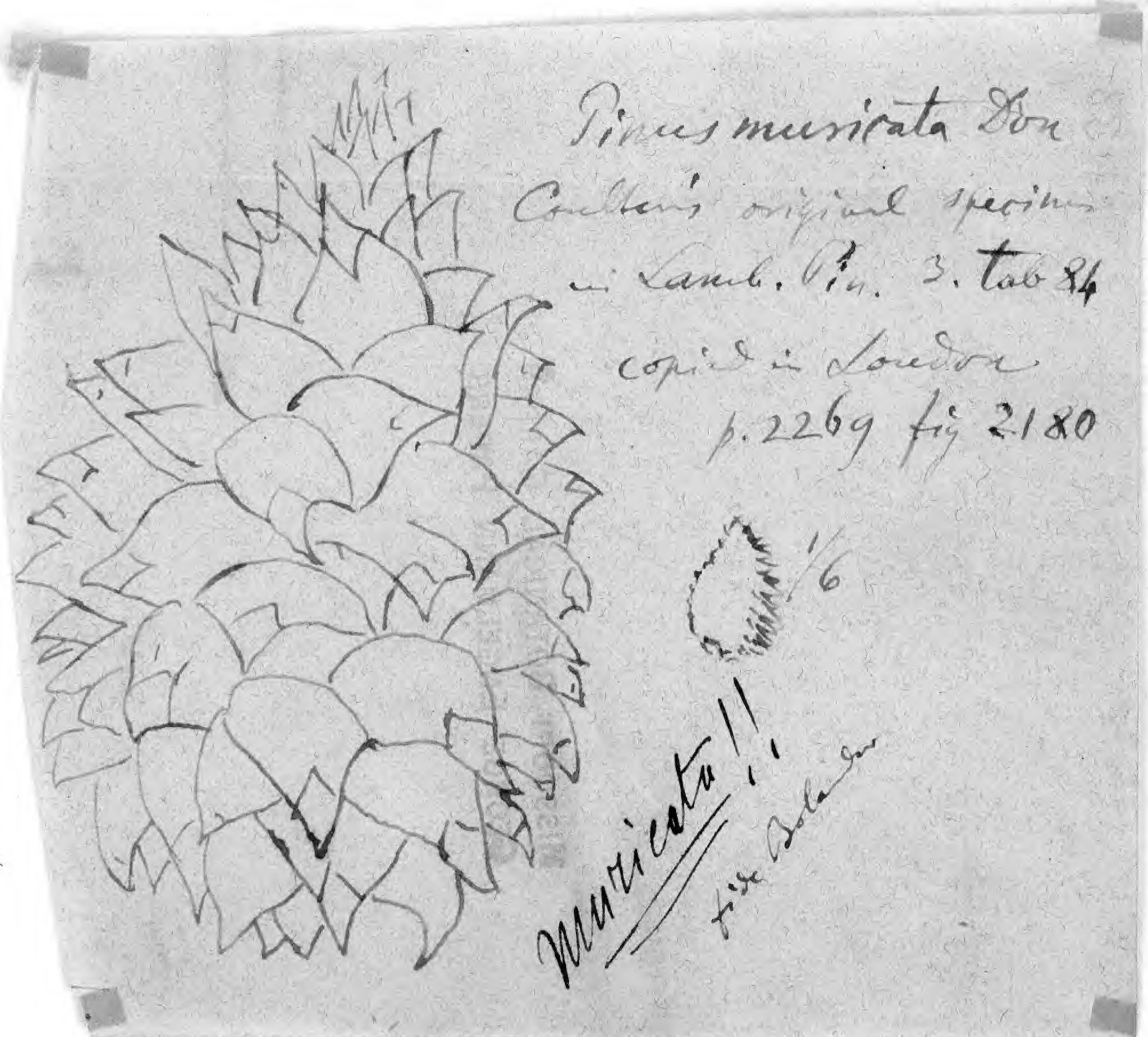


0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN



0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

12138

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved



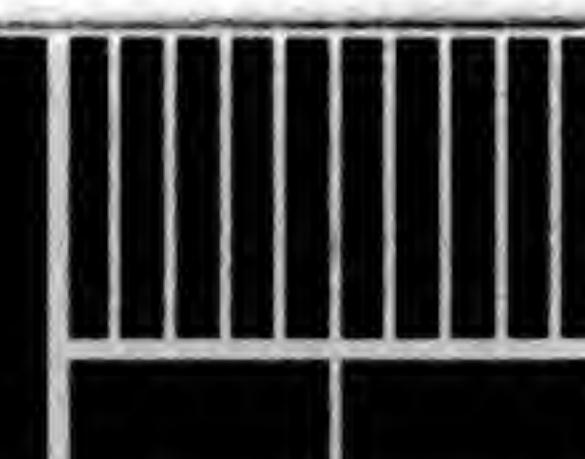
MISSOURI  
BOTANICAL  
GARDEN

P. muriata Letter of Bolander, March 1864

" N° 2 XX *Pinus contorta* ?? [no, *muriata*,  
aptly] flowering branches, young cones, old cones  
seedlings, bark of tree 40' high 53" circumferent [17 inches diam] trunk naked  
lower branches horizontal, upper petioles,  
to broad oval or subtriangular  
Cones reflexed, persistent 4 or 5 years  
in whorls, 1-2 inches long  
Scattered or in small groups in the  
Lime Kiln hills at the head of  
Tomales bay, 5-8 miles from  
the ocean, 2000 feet high. —  
Conglomerate rock — no other  
pine about — fogs heavy  
the whole year round

collected March 12 1864

— ~~all~~ Meadowmo ~~Navarro~~ to  
Oct. 14. 1865 north of San Francisco, mouth of  
mouth of ~~the~~ plain with *P. contorta*, which I  
now take for *P. Murrayana* — exactly the  
same as that from Tomales <sup>Lower</sup> — only larger —  
— Meadowmo plains, a few miles eastward  
over



0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

of the City - with 2 Pines :

*P. contorta*? 60-100-120' high 1-2'

*Mariquita* - very irregular growth [B. says that this is *mariquita*!]

*P. murrayi*? ab-15' feet high  
B. says that this is *murrayi*!  
Coneleader, one tree 20-25' covered  
with old cones, 18" diam. - top  
flat-conical. - Specimen is  
from a tree 15" circumfer. & 15' high.

(Boulder July 19' 1866: Pines 15 feet high, from  
Meadow. It is certainly ~~different~~ ~~and~~ ~~and~~  
and same as that from Monterey. *contorta*)

Nov. 28. 1867. *P. contorta* and from Meadow  
at the Williams and Woodhouse (1)

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



MISSOURI  
BOTANICAL  
GARDEN




0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved

11  
OHIO

Hartweg's. cone



*Pinus taeda* var. *lutea*

Gordon's figure in Journ. Hartw. Soc. 4, 219. (1849.)  
For accompanying description see extract from "Pinaceum"



0 1 2 3 4 5 6 7 8 9 10  
cm

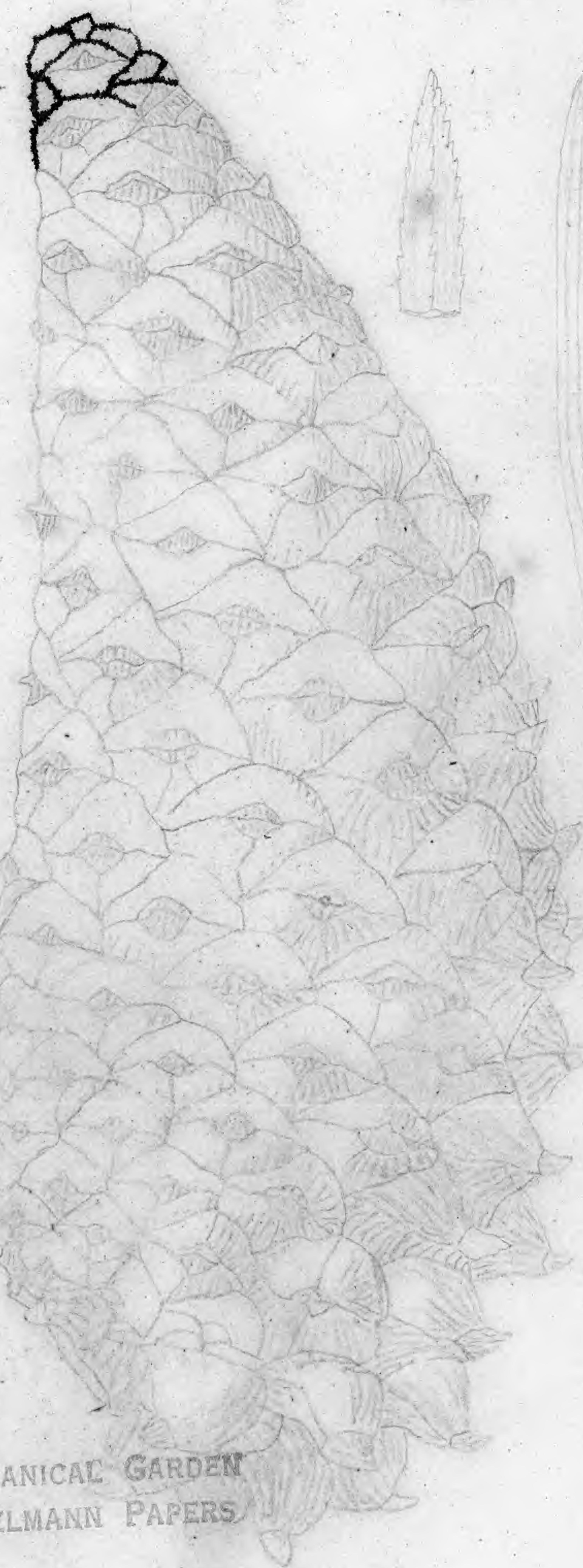
copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

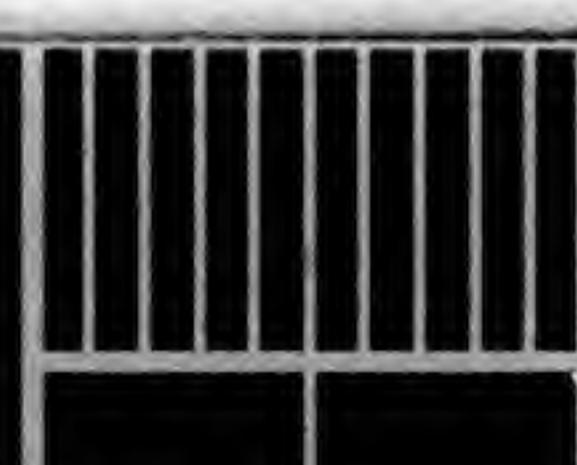
eng. i. goodall

12140



MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

observed at wint'g  
(1881). p. 15. H. Scott. Scott says it is very big and broad  
but not as large as a Sitka spruce, perhaps about 10 cm. in diameter.



0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved

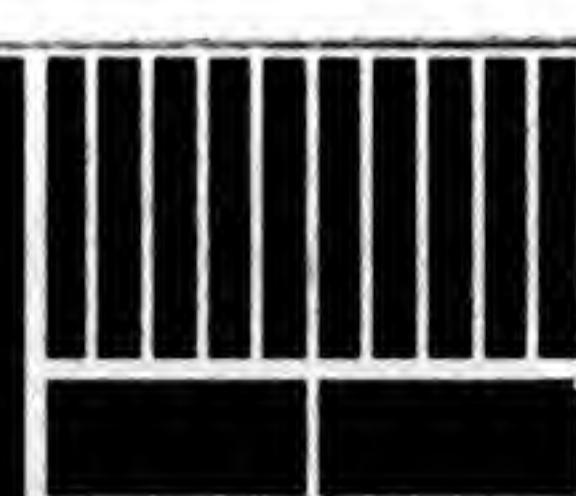


MISSOURI  
BOTANICAL  
GARDEN

Bolander May 13 1866: Meadow Pine  
*Pinus murrayana*

The small Pine of Meadowino seems identical with that of Monterey. This latter grows on poor soil and the trees do not get old, die soon, rarely more than 10-20 feet high, 5-7 inches diameter. On Meadowino large and small trees are found, on peaty or wet soil and on dry slopes; large old trees near the sea coast.

Cones persistent, often a life time of the tree - trees 1-3 feet diameter are often covered with them so as to be very ugly



0  
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

12141

*Gymnophorus Geer.*

Der glöögließ ringdunst am Boden in  
Kübeln müßtig mis, so daß nur Gymnophorus  
wächst. Es ist da darüber gleichzeitig nur  
eine geringe Ausbildung, soß ist in den  
niedrigen Böden die Rinde vergraben  
u. s. B. Da das Gras gewöhnlich wächst  
auf den Verhauwten Kreiseln  
Montag und Dienstag in gewissen  
Städten vergraben.

Indem ich mich Ihnen bedanke  
wüßtig, habe ich die Ehr  
zu Ihnen

Leipzig,  
am 25. Mai 1857

Ehr

Engel

ergraben  
F. Engel, cand. Med.

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

Pinus muricata Bolander: Att. Oct 14  
1865-  
The fine specimens sent you are from a  
tree 15' high 15" diam. - with incisions,  
in a damp depression near Monterey,  
2 miles from the Coast - Oct 6 1865.

Leaves deep green, bark smooth, reddish  
Leaves long persistent. - On the specimens  
dark, marked; on dry soil, appear  
different, and are probably the same  
as those sent from Meadowmo.

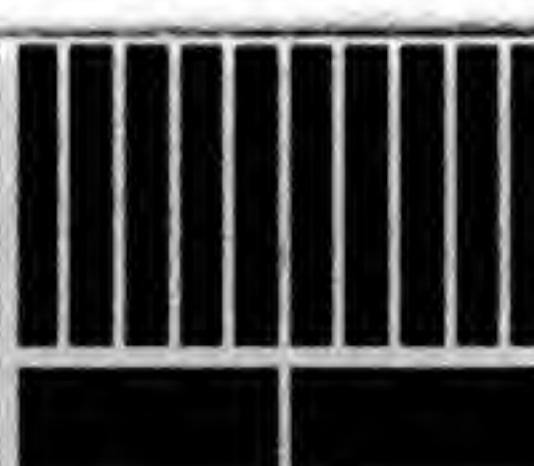
( Cone of P. muricata 3 inches long (narrow)  
with short broad straight scales

Bolander July 19 1866. P. muricata Meadowmo

15' feet high, ~~but you say~~ 80-120 feet high

P. muricata from Meadowmo is identical with  
the one from Monterey! "spars. - box"  
for a tree 15" diameter, 15' high. We  
called it formerly P. contorta? 19/66

Nov 28. 1867: P. muricata sent from Tomales Bay,  
Meadowmo City, ca Monterey.



0  
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

12142

I have specimens of *Spinode polystachys* in flower and fruit sent to me by Dr Gray at least three years ago, collected by Mrs Brown in Brattleboro Vermont! I think he told me that his specimens were mislaid or lost. My analysis of the Dr Torrey's letter of Octob 11 1867 (misification agreed exactly with the excellent figures of Richard J. Grisebach in Archiv.)

St Louis Aug 16 1870

My dear Doctor

The above is the extract of your letter of 1867 to which you allude.

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

Hartweg's Journal in, Hort. & Journal III. 267  
within two miles of the seashore of Monterey, found  
a new Pine, scattered to half a square mile,  
surrounded by *P. insignis* - this is coarse  
decomposed granite, called it *P. Edgardae*  
[= *P. maricota*] ]



0

1

2

3

4

5

6

7

8

9

10

cm

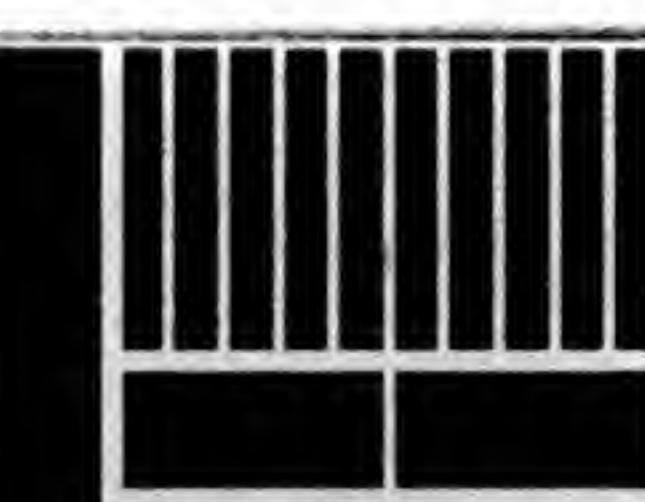
copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

12143

MISSOURI BOTANICAL GARDEN PAPERS  
GEORGE ENGELMANN



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

1679 *Pinus muricata*

sub nom. *P. contorta*

Tonalea Point, exposed to sea wind.

Foliage very dense, seeming like a wall,  
bright & shining, dark green

Trees squat, but of symmetrical shape,  
much branched.

Cone remaining on tree over 30 years  
or more, without opening

Cone  $2\frac{1}{2}$  long  $1\frac{1}{2}$  thick, very unequal,  
with very strong recurved or (on the less  
developed side) spreading spines.

inf. Brewer Ann. 1871



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

12144



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN